Algebra 1 Name_____ ID: 1

Assignment

Date_____ Period____

Evaluate each expression.

1) $\frac{3}{4} + \left(-2\frac{6}{7}\right)$

2) $\frac{1}{6} - 4\frac{4}{7}$

3) $4\frac{1}{2} - \frac{5}{8}$

4) $2 - \frac{1}{3}$

5) $(-7) + 4$

6) $4 - 3$

7) $5 + (-4)$

8) $1 - 7$

9) $\left(-3\frac{1}{12}\right) - \frac{5}{3}$

10) $2\frac{1}{5} - \frac{14}{9}$

11) $\frac{1}{5} + \left(-9\frac{4}{5}\right)$

12) $\frac{11}{12} - \left(-3\frac{1}{4}\right)$

Solve each equation.

13) $-6 = x - 9$

14) $v - 7 = -13$

15) $x + 4 = 11$

16) $-11 = x - 3$

17) $x - 3 = -13$

18) $b - 9 = -13$

19) $\frac{k}{4} = 4$

20) $\frac{k}{8} = -9$

21) $60 = -6x$

22) $56 = 8b$

23) $-7 = \frac{x}{5}$

24) $\frac{r}{15} = \frac{14}{15}$

25) $-84 = -7x$

26) $-10 = -5r$

27) $128 = -16x$

28) $288 = 16x$

29) $9v = 72$

30) $\frac{x}{14} = -\frac{1}{14}$

31) $-5 = -5 + \frac{x}{3}$

32) $\frac{n+4}{5} = 2$

33) $5(n - 5) = -15$

34) $5 = \frac{n}{2} + 3$

35) $-2 - 3x = -26$

36) $20 = -5(1 + v)$

37) $-14 = 2(-2 + v)$

38) $-68 = -6m + 4$

39) $3(p-4) = -30$

40) $\frac{-4+x}{4} = 1$

41) $\frac{n}{7} + 3 = 5$

42) $6m + 2 = 56$

43) $1 = a - 4 + 1$

44) $4r + 2 - 1 = -3$

45) $-2v + 3v = 3$

46) $6 = 3x + 3x$

47) $-5 = n - 3 - 3n$

48) $4n + 2 - 1 = -11$

49) $42 = 3(3x + 2)$

50) $-3(-4 + 4k) = 60$

51) $-45 = 3(3x - 3)$

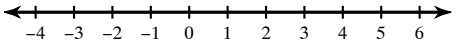
52) $-4(2 - 3n) = -44$

53) $-42 = 3(-4x - 2)$

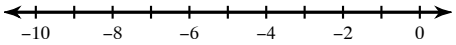
54) $60 = 3(4a + 4)$

Solve each inequality and graph its solution.

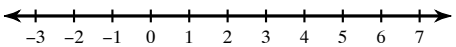
55) $4 \le 6 + n$



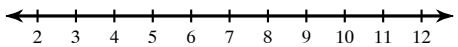
56) $-2 \le n + 2$



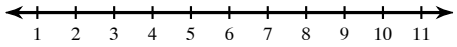
57) $9 < 4 + a$



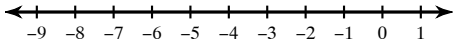
58) $4 < 10 - r$



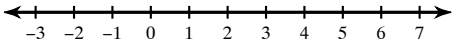
59) $2 < 7 - x$



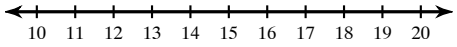
60) $a + 9 \geq 8$



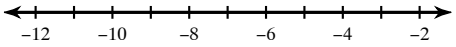
61) $-30 > -6(x + 3)$



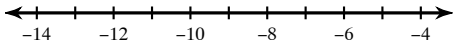
62) $-3(x + 3) \leq -57$



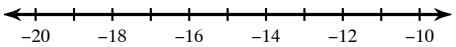
63) $-5 + \frac{x}{2} \geq -9$



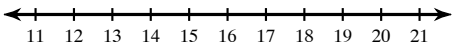
64) $\frac{-4 + x}{3} > -4$



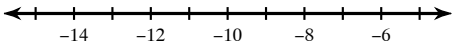
65) $-9 < \frac{p}{14} - 8$



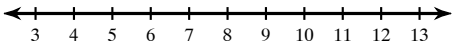
66) $\frac{8 + b}{12} < 2$



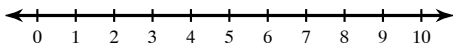
67) $-86 < 6(p - 5) - 8$



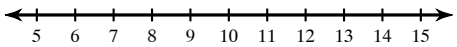
68) $104 > -2(-6x - 4)$



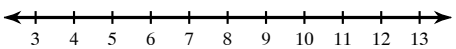
69) $-121 < -7 + 6(1 - 5k)$



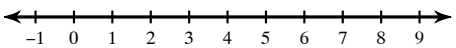
70) $-6 + 7(8a - 1) \geq 379$



71) $-2(1 - 6p) > 94$



72) $-135 \leq -6(5 + 4x) + 3x$



Algebra 1 Name_____ ID: 1

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Evaluate each expression.

1) $\frac{3}{4} + \left(-2\frac{6}{7}\right)$

$-\frac{59}{28}$

2) $\frac{1}{6} - 4\frac{4}{7}$

$-\frac{185}{42}$

3) $4\frac{1}{2} - \frac{5}{8}$

$\frac{31}{8}$

4) $2 - \frac{1}{3}$

$\frac{5}{3}$

5) $(-7) + 4$

-3

6) $4 - 3$

1

7) $5 + (-4)$

1

8) $1 - 7$

-6

9) $\left(-3\frac{1}{12}\right) - \frac{5}{3}$

$-\frac{19}{4}$

10) $2\frac{1}{5} - \frac{14}{9}$

$\frac{29}{45}$

11) $\frac{1}{5} + \left(-9\frac{4}{5}\right)$

$-\frac{48}{5}$

12) $\frac{11}{12} - \left(-3\frac{1}{4}\right)$

$\frac{25}{6}$

Solve each equation.

13) $-6 = x - 9$

$\{3\}$

14) $v - 7 = -13$

$\{-6\}$

15) $x + 4 = 11$

$\{7\}$

16) $-11 = x - 3$

$\{-8\}$

17) $x - 3 = -13$

$\{-10\}$

18) $b - 9 = -13$

$\{-4\}$

19) $\frac{k}{4} = 4$

$\{16\}$

20) $\frac{k}{8} = -9$

$\{-72\}$

21) $60 = -6x$

$\{-10\}$

22) $56 = 8b$

$\{7\}$

23) $-7 = \frac{x}{5}$

$\{-35\}$

24) $\frac{r}{15} = \frac{14}{15}$

$\{14\}$

25) $-84 = -7x$

$\{12\}$

26) $-10 = -5r$

$\{2\}$

27) $128 = -16x$

$\{-8\}$

28) $288 = 16x$

$\{18\}$

29) $9v = 72$

$\{8\}$

30) $\frac{x}{14} = -\frac{1}{14}$

$\{-1\}$

31) $-5 = -5 + \frac{x}{3}$

$\{0\}$

32) $\frac{n+4}{5} = 2$

$\{6\}$

33) $5(n-5) = -15$

$\{2\}$

34) $5 = \frac{n}{2} + 3$

$\{4\}$

35) $-2 - 3x = -26$

$\{8\}$

36) $20 = -5(1+v)$

$\{-5\}$

37) $-14 = 2(-2+v)$

$\{-5\}$

38) $-68 = -6m + 4$

$\{12\}$

39) $3(p-4) = -30$

$\{-6\}$

40) $\frac{-4+x}{4} = 1$

$\{8\}$

41) $\frac{n}{7} + 3 = 5$

$\{14\}$

42) $6m + 2 = 56$

$\{9\}$

43) $1 = a - 4 + 1$

$\{4\}$

44) $4r + 2 - 1 = -3$

$\{-1\}$

45) $-2v + 3v = 3$

$\{3\}$

46) $6 = 3x + 3x$

$\{1\}$

47) $-5 = n - 3 - 3n$

$\{1\}$

48) $4n + 2 - 1 = -11$

$\{-3\}$

49) $42 = 3(3x + 2)$

$\{4\}$

50) $-3(-4 + 4k) = 60$

$\{-4\}$

51) $-45 = 3(3x - 3)$

$\{-4\}$

52) $-4(2 - 3n) = -44$

$\{-3\}$

53) $-42 = 3(-4x - 2)$

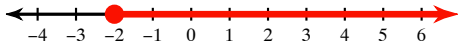
$\{3\}$

54) $60 = 3(4a + 4)$

$\{4\}$

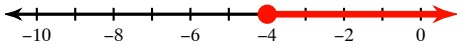
Solve each inequality and graph its solution.

55) $4 \le 6 + n$



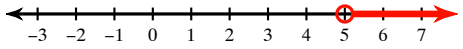
$n \ge -2$

56) $-2 \le n + 2$



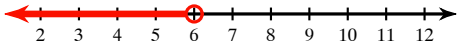
$n \ge -4$

57) $9 < 4 + a$



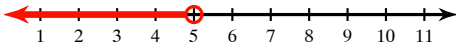
$a > 5$

58) $4 < 10 - r$



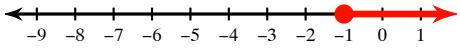
$r < 6$

59) $2 < 7 - x$



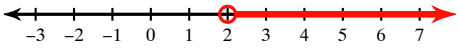
$x < 5$

60) $a + 9 \geq 8$



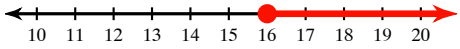
$a \geq -1$

61) $-30 > -6(x + 3)$



$x > 2$

62) $-3(x + 3) \leq -57$

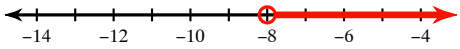


$x \geq 16$

63) $-5 + \frac{x}{2} \geq -9$

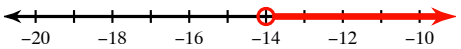
$x \geq -8$

64) $\frac{-4 + x}{3} > -4$



$x > -8$

65) $-9 < \frac{p}{14} - 8$

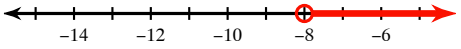


$p > -14$

66) $\frac{8 + b}{12} < 2$

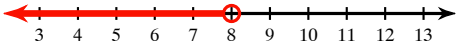
$b < 16$

67) $-86 < 6(p - 5) - 8$



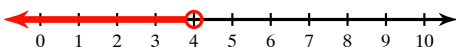
$p > -8$

68) $104 > -2(-6x - 4)$



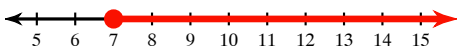
$x < 8$

69) $-121 < -7 + 6(1 - 5k)$



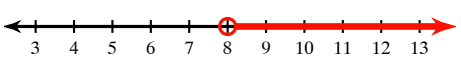
$k < 4$

70) $-6 + 7(8a - 1) \geq 379$



$a \geq 7$

71) $-2(1 - 6p) > 94$



$p > 8$

72) $-135 \leq -6(5 + 4x) + 3x$

$x \leq 5$